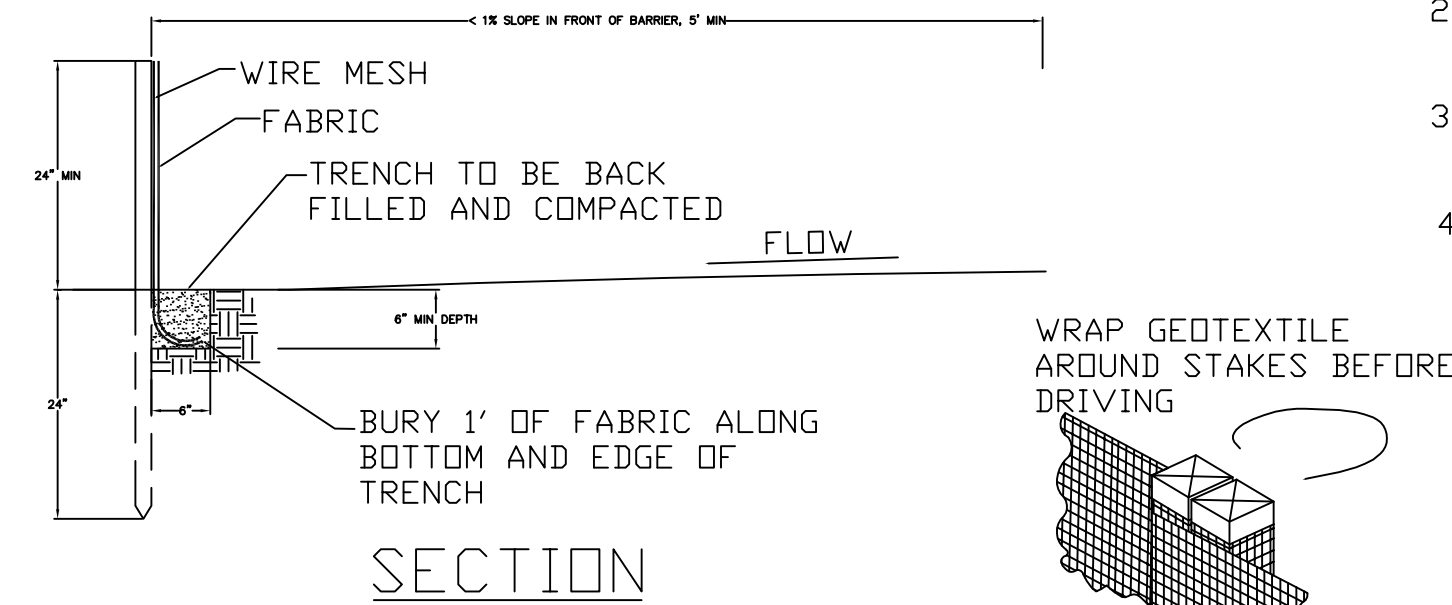
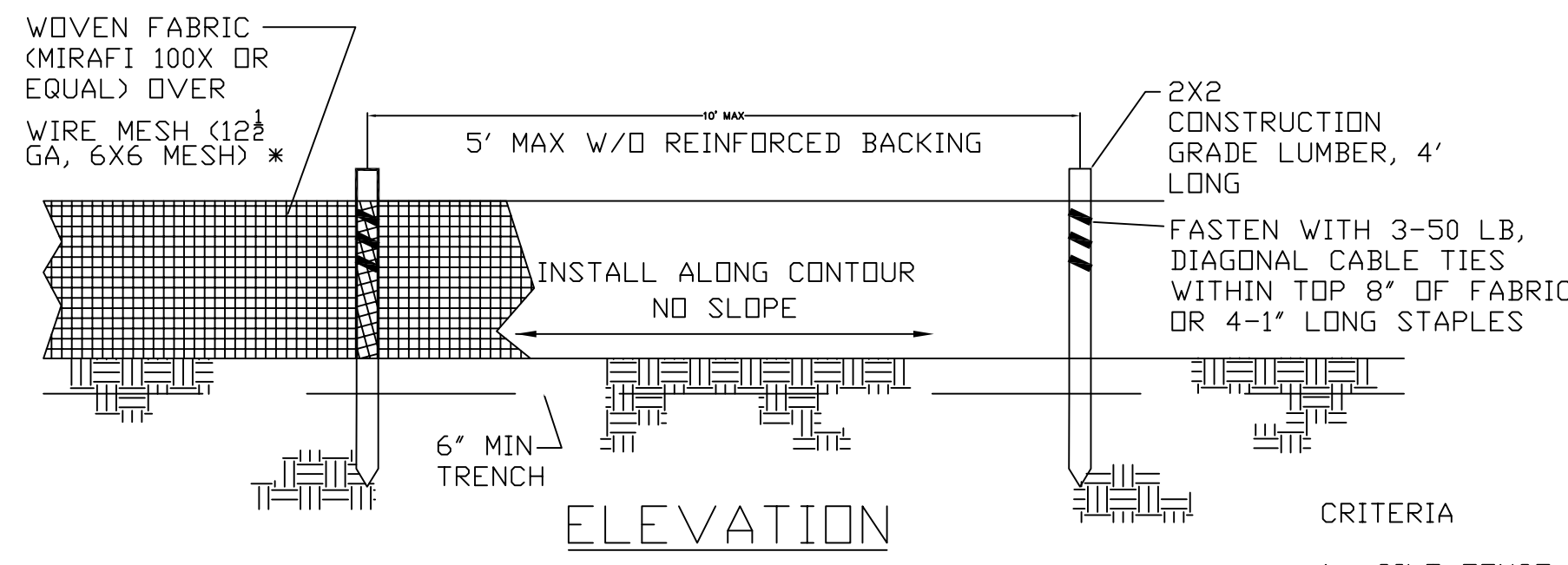


- DESIGN CRITERIA**
- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
 - REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
 - TERRACING INCLUDES LOGS, WATTLES & FILTER SOCKS.

SPACING CHART FOR ESC DEVICES

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI



JOINING SECTIONS OF SILT FENCE

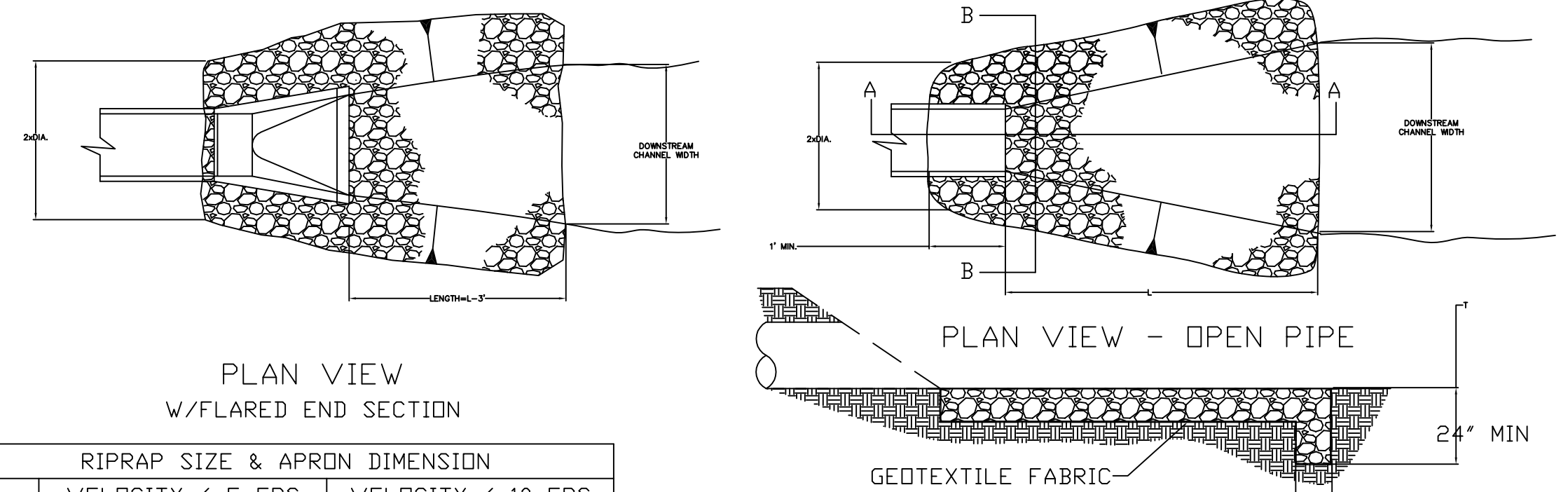
NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

CRITERIA

- SILT FENCE SHALL BE 24 INCHES HIGH.
- SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
- GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
- WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

SILT FENCE INSTALLATION SHEET FLOW (ONLY)

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O'FALLON, MISSOURI



RIPRAP SIZE & APRON DIMENSION

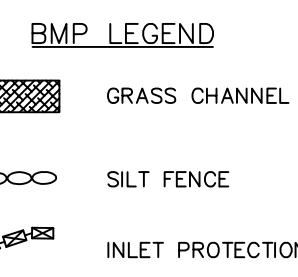
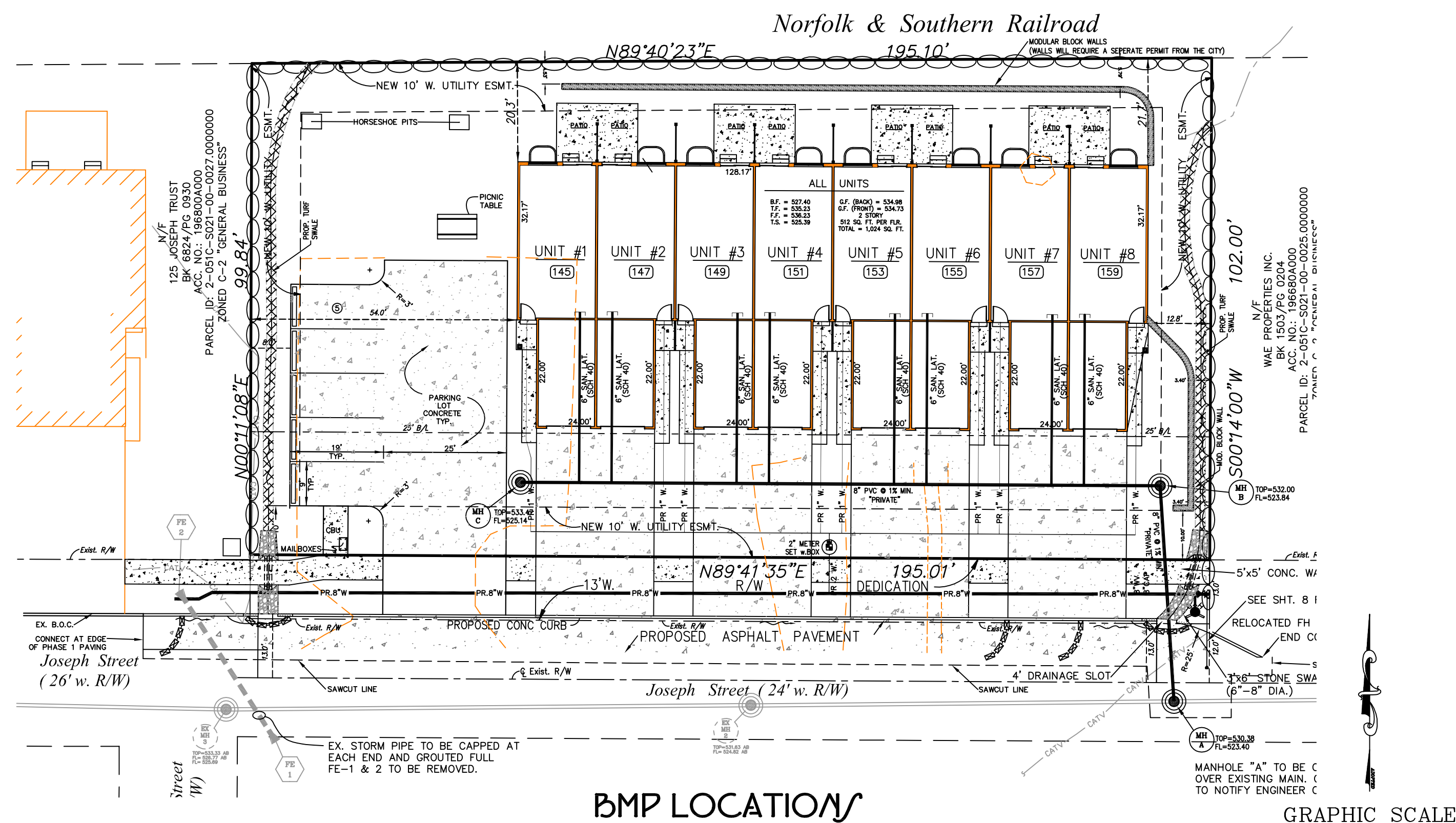
| PIPE SIZE (inch) | VELOCITY < 5 FPS | | | | VELOCITY < 10 FPS | | | |
|------------------|------------------|------------------|----------|--------|-------------------|------------------|----------|--------|
| | ROCK SIZE (inch) | APRON DIM (inch) | T (inch) | L (ft) | ROCK SIZE (inch) | APRON DIM (inch) | T (inch) | L (ft) |
| 12 | 5 | 9 | 15 | 12 | 5 | 9 | 15 | 16 |
| 15 | 5 | 9 | 15 | 14 | 5 | 9 | 15 | 18 |
| 18-24 | 5 | 9 | 15 | 16 | 9 | 14 | 24 | 20 |
| 27-30 | 5 | 9 | 15 | 18 | 9 | 14 | 24 | 22 |
| 36-42 | 9 | 14 | 24 | 22 | 12 | 18 | 27 | 26 |
| 48-54 | 9 | 14 | 24 | 26 | 12 | 18 | 27 | 30 |
| 60-66 | 12 | 18 | 27 | 34 | 15 | 24 | 30 | 38 |
| 72-84 | 15 | 24 | 30 | 42 | 15 | 24 | 30 | 46 |
| 96 | 18 | 27 | 30 | 50 | 18 | 27 | 30 | 54 |

Ø50 - NOMINAL DIAMETER
ØMAX - MAXIMUM DIAMETER
T - THICKNESS
L - LENGTH

- DESIGN CRITERIA**
- FROUDE NUMBER MUST BE ≤ 2.50.
 - USE 3 TIMES PIPE DIAMETER FOR DOWNSTREAM CHANNEL WIDTH IF THERE IS NO DEFINED CHANNEL.
 - BANK PROTECTION HEIGHT TO BE 2/3 TIMES PIPE DIAMETER.
 - ROCK SLOPES SHALL BE NO STEEPER THAN 3:1.

TEMPORARY OUTLET PIPE DISCHARGE PROTECTION

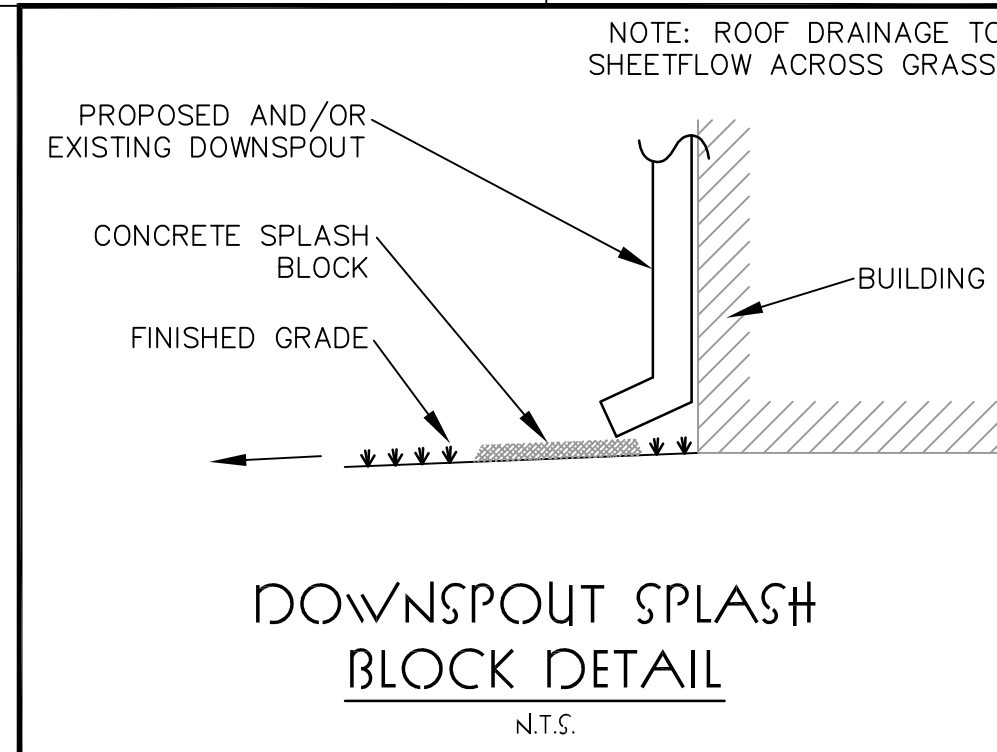
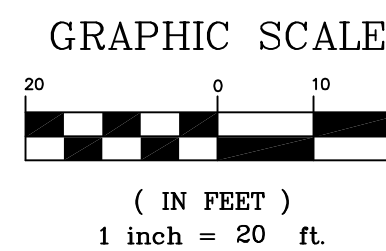
CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI



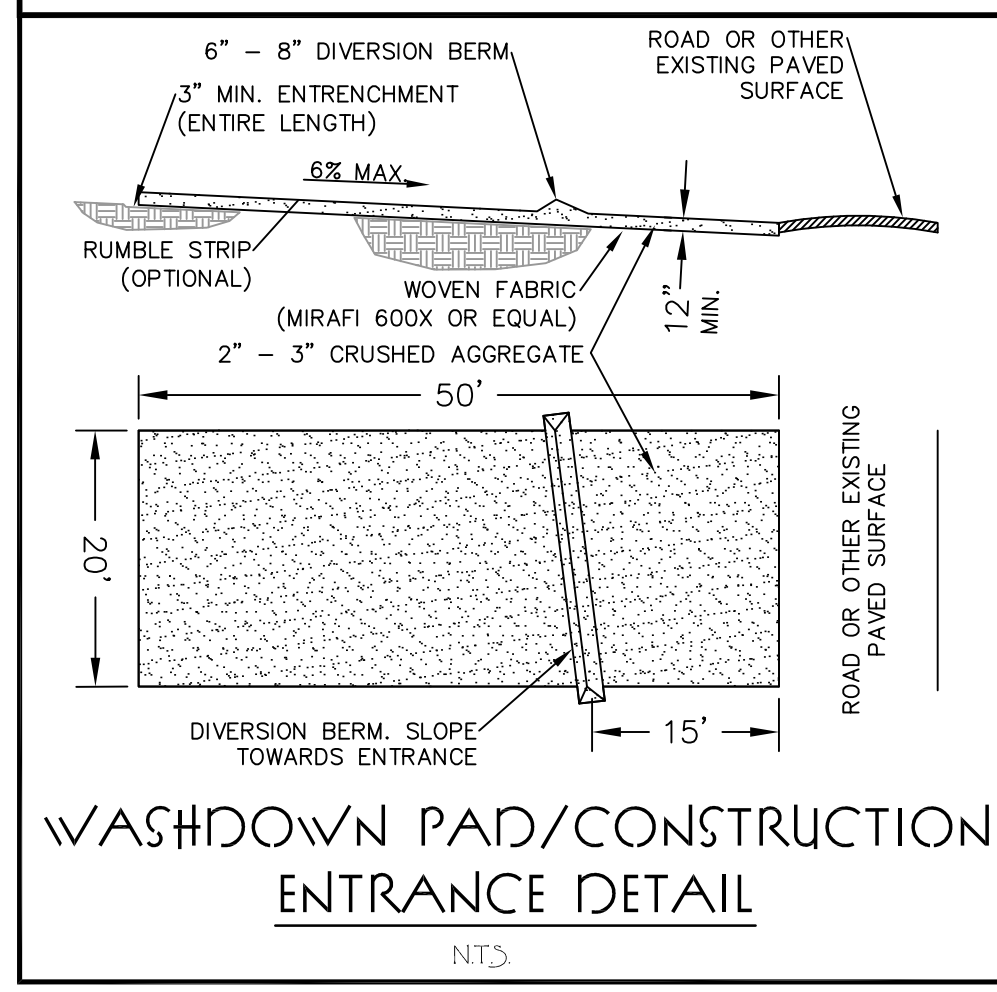
BMP LOCATIONS

GENERAL SWPPP NOTES

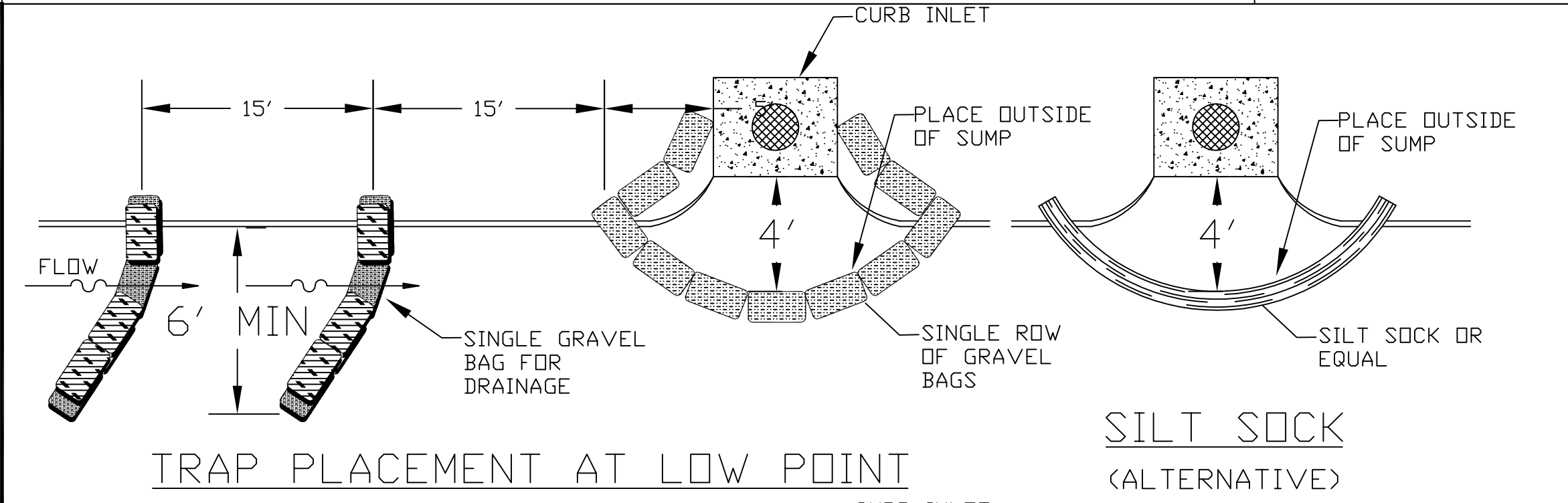
- TEMPORARY CONSTRUCTION PARKING TO BE LOCATED NEAR THE CORNER OF THE PARKING LOT.
- CONTRACTOR TO KEEP CLEAN THE EXISTING SURROUNDING STREETS FROM ANY MUD AND DEBRIS.
- TEMPORARY BMP'S TO BE MAINTAINED THROUGHOUT CONSTRUCTION PROCESS.
- TEMPORARY BMP'S TO BE REMOVED AFTER COMPLETION OF GRADING OPERATION AND/OR ESTABLISHMENT OF SITE VEGETATION.
- ALL MUD AND DEBRIS TO BE MAINTAINED ON-SITE TO PROTECT "VALUABLE RESOURCE WATERS" AS DETERMINED BY MISSOURI DEPARTMENT OF NATURAL RESOURCES.
- DURING NON-CONSTRUCTION TIMES THROUGH THE WINTER MONTHS, ALL EXPOSED OR UNVEGETATED AREAS SHALL BE COVERED WITH STRAW TO PREVENT EROSION.
- ANY DAMAGED VEGETATION DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AND/OR REPLACED AFTER FINAL COMPLETION.



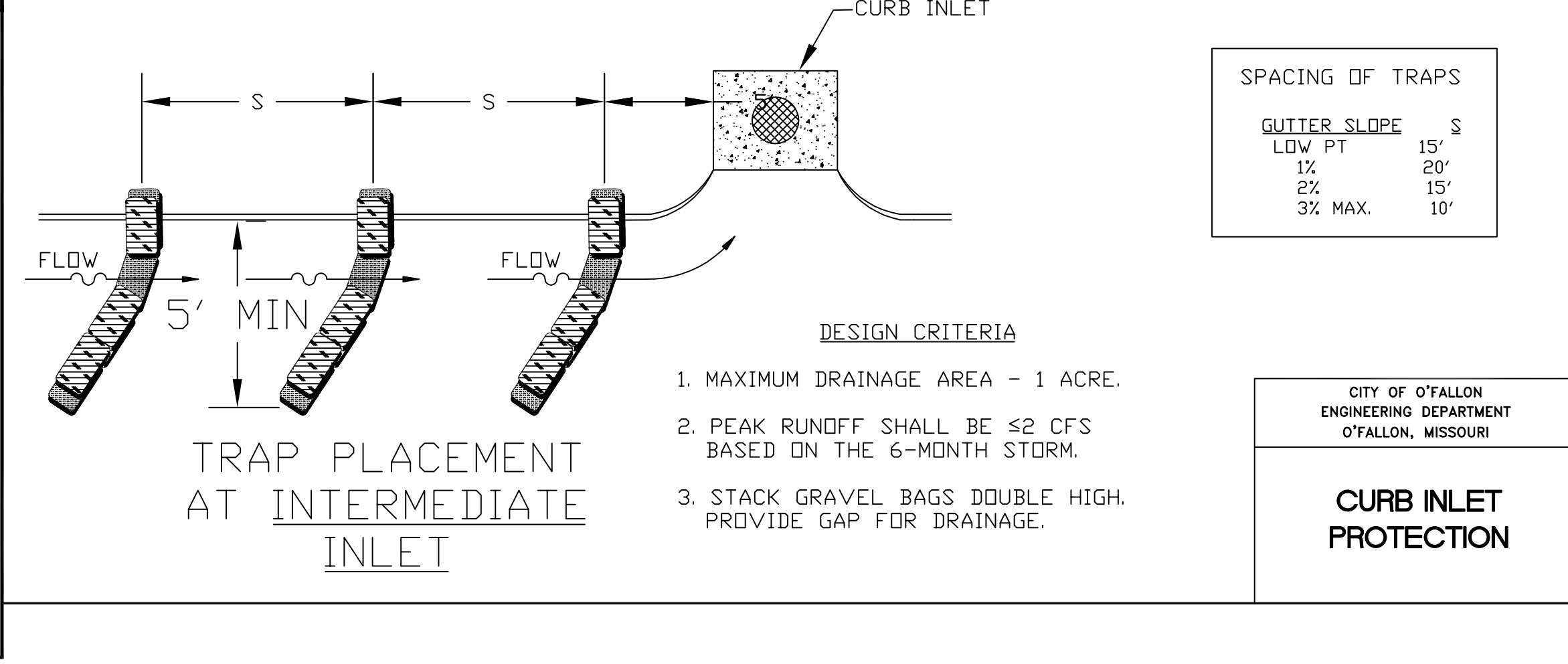
DOWNSPOUT SPLASH BLOCK DETAIL
N.T.S.



WASHDOWN PAD/CONSTRUCTION ENTRANCE DETAIL
N.T.S.



TRAP PLACEMENT AT LOW POINT



TRAP PLACEMENT AT INTERMEDIATE INLET

- DESIGN CRITERIA**
- MAXIMUM DRAINAGE AREA - 1 ACRE.
 - PEAK RUNOFF SHALL BE ≤ 2 CFS BASED ON THE 6-MONTH STORM.
 - STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

SPACING OF TRAPS

| GUTTER SLOPE | LDV. FT |
|--------------|---------|
| 1% | 15' |
| 2% | 20' |
| 3% MAX. | 10' |

CURB INLET PROTECTION

CITY OF O'FALLON
ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

DIG-RITE TICKET #s: 182832698 (JOSEPH STREET)

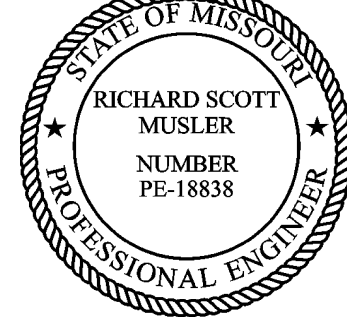
Call Before you DIG
TOLL FREE
1-800-344-7483
or 811
MISSOURI ONE-CALL SYSTEM INC.



Underground facilities, structures and utilities have been plotted from available surveys, records and information, and therefore, do not necessarily reflect the actual existence, non-existence, size, type, number of, or location of these facilities, structures and utilities. The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, and utilities, either shown or not shown on these plans. The underground facilities, structures and utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 319, RSMo.



The Professional Engineer's and/or Professional Land Surveyor's responsibility is limited to plans and other documents displaying his/her signature and seal. Engineer and Surveyor hereby disclaim responsibility for:
* Unauthorized use of plans and other documents prior to receipt of all review agency approvals
* All previously issued versions of this sheet
* This sheet whenever a revised sheet is issued
* Individual use of any sheet that is part of a set of plans
This applies to all plans and other documents associated with this project, whether this statement appears on them or not.



Client
125 Joseph Trust
1278 Jungermann Road, Suite F
St. Peters, MO 63376
636-262-4473
N/A
Mr. Paul James
paul@stcharlesrent.com

| No. | Date | Revision/Issue |
|-----|---------|---------------------------------|
| 1 | 3-19-19 | Rev. per City comments 02-26-19 |
| 2 | 4-17-19 | Rev. per City comments 04-11-19 |

Joseph Street Townhomes Phase Two
Details
MUSLER ENGINEERING COMPANY
CIVIL ENGINEERING - PLANNING - LAND SURVEYING
32 PORTWEST COURT • SAINT CHARLES, MISSOURI 63303-5985
PHONE: 636-916-0444 • FAX: 636-916-3444

CITY OF O'FALLON
File #: 19-000810
Permit #: CSP19-000004
P & Z #: 18-012179
City Council #: 18-012331

City/County Job No:

Checked:

Proj. Manager:
Original Issue Date
Nov., 2018

Project No. 18-1492

Sheet **9**